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Section 1 → EERD

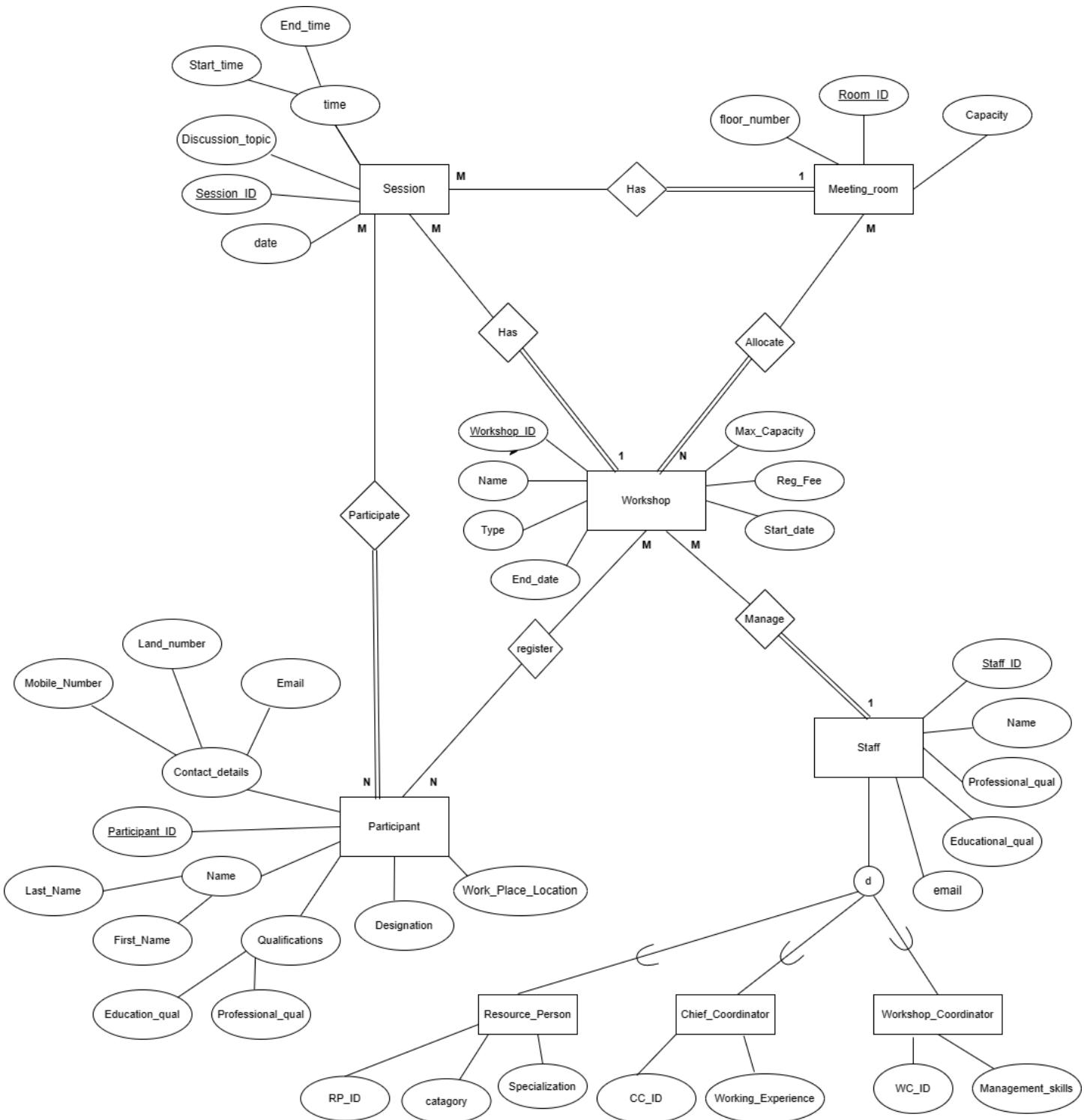


Figure 1:EERD

Assumptions for the multiplicity constrain.

Relation	Cardinality Relations	Assumptions
Participant - session	M : N	One participant can participate many sessions One session has many participants
Session – meeting_room	1 : M	One meeting room have many sessions. One session can only have one meeting room.
Workshop - session	1 : M	One workshop have many sessions. One session can only have one workshop.
Workshop – meeting_room	M : N	One workshop allocated in many meeting rooms. One meeting room have many workshops.
Participant - workshop	M : N	One participant can register many workshops. One workshop have many participants
Staff - Workshop	1 : M	One Staff manage many workshops. One workshop managed by only one staff.

Section 2 → RELATIONAL SCHEMA

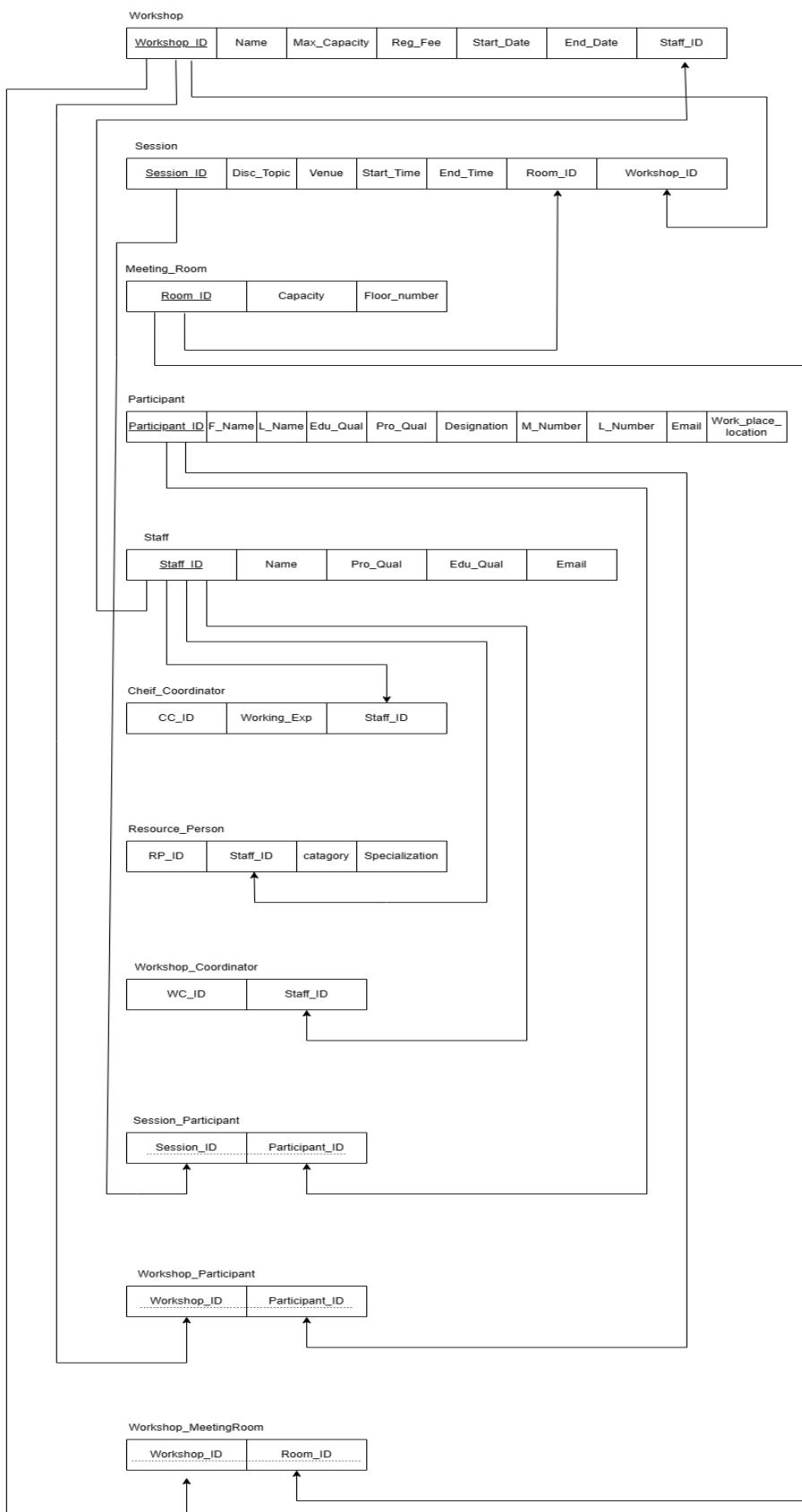


Figure 2 Relational schema

Assumptions

- I assume that the resource person, chief coordinator and workshop coordinator are the sub entities of the super entity called staff. I used partial disjoint method, because there are other staff members that are not mentioned in the data base. Also Resource person cannot be a chief coordinator, workshop coordinator cannot be resource person such as any particular staff member has a one specific job.
- Staff_ID is both primary key and the foreign key of each sub entity.
But there are some attributes to identify the each sub entity uniquely,
Ex: Resourseperson_ID, Chiefcoordinator_ID and Workshopcoordinator_ID
- In qualifications attribute, I divided into two sub entities called professional qualifications and educational qualifications. I expect only one best qualification for these two entites. Also this condition valid to working experience of chief coordinator and management skills of workshop coordinator.
- One floor has only one meeting room
- Data must be integer in all the identity numbers.
Ex: workshop_id, participant_id, staff_id and etc.
- I created new tables to each many to many relationship.
Ex: session_participant table
Workshop_participant table
Workshop_meetingroom table

NORMALIZATION

0NF → 1NF

- Current relational schema is not in 1NF. All the relations have a primary key, no any repeating groups. All the multivalued attributes are mapped to separate relations. So there are no any multivalued attributes.
- Therefore all the tables are in 1NF

1NF → 2NF

- All tables in 1NF.
- All the tables(relations) have a single valued primary key.
- All the dependencies are full dependencies. No any partial dependencies at all.
- Therefore all the tables are in 2NF.

2NF → 3NF

- All the tables are in 2NF.
- In all the tables, there are no any transitive dependencies, which means that non-key attribute should depend on another non-key attribute.
- Therefore all the tables in 3NF.

Section 3

Create Database

SQL Code:

```
CREATE DATABASE NITD_Workshop_System;
```

Generated Database:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Databases:** Databases list includes: New, check, information_schema, mega_firm_db (which contains New and employee), mysql, nitr_workshop_system, performance_schema, phpmyadmin, test, and westminister.
- Query Results:** A green box displays the message: "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0011 seconds.)".
- Query Editor:** The query `CREATE DATABASE NITD_Workshop_System;` is entered in the editor.
- Feedback:** Below the editor, a message says "[Edit inline] [Edit] [Create PHP code]".
- Error:** A blue box at the bottom left shows the error: "Error: #1046 No database selected".

Figure 3

CREATING DATABASE TABLES

Staff Table

SQL Code:

```
CREATE TABLE Staff
(
    Staff_ID int(10),
    Name varchar(50) NOT NULL,
    Pro_Qualification varchar(50) NOT NULL,
    Edu_Qualification varchar(50) NOT NULL,
    PRIMARY KEY(Staff_ID)
);
```

Generated table:

The screenshot shows two instances of the phpMyAdmin interface. The top instance is in 'Structure' mode for the 'niti_workshop_system' database, displaying the SQL query for creating the 'Staff' table:

```
CREATE TABLE Staff ( Staff_ID int(10), Name varchar(50) NOT NULL, Pro_Qualification varchar(50) NOT NULL, Edu_Qualification varchar(50) NOT NULL, PRIMARY KEY(Staff_ID) );
```

The bottom instance is in 'Browse' mode for the same database and table, showing the results of the 'SELECT * FROM staff;' query:

Staff_ID	Name	Pro_Qualification	Edu_Qualification

Both screenshots include a sidebar with various database and schema names.

Figure 4

Meeting_Room Table

SQL Code:

```
CREATE TABLE Meeting_room  
(
```

```

Room_ID int(10) NOT NULL,
Capacity int(10) NOT NULL,
PRIMARY KEY(Room_ID)
);

```

The screenshot shows the phpMyAdmin interface for a database named 'nld_workshop_system'. In the left sidebar, under the 'Structure' tab, there is a tree view of databases and tables. A message at the top indicates that MySQL returned an empty result set. Below the message, the SQL query for creating the 'Meeting_room' table is displayed:

```

CREATE TABLE Meeting_room ( Room_ID varchar(10) NOT NULL, Capacity int(10) NOT NULL, PRIMARY KEY(Room_ID) );

```

Figure 5

Generated table:

The screenshot shows the phpMyAdmin interface for the 'nld_workshop_system' database, specifically for the 'meeting_room' table. The left sidebar shows the database structure. The main area displays the table structure with columns 'Room_ID' and 'Capacity'. Below the table structure, there are options for 'Query results operations' like 'Create view' and 'Bookmark this SQL query'. A message at the top indicates that MySQL returned an empty result set.

Figure 6

Add “floor_number” column to ‘meeting_room’ table

SQL Code:

ALTER TABLE meeting_room

ADD floor_number varchar(15) NOT NULL;

Generated table:

The screenshot shows the phpMyAdmin interface for the 'meeting_room' table. The table has columns: Room_ID, Capacity, and floor_number. The data is as follows:

	Room_ID	Capacity	floor_number
<input type="checkbox"/>	1	40	F1
<input type="checkbox"/>	2	30	F2
<input type="checkbox"/>	3	60	F3
<input type="checkbox"/>	4	80	F4
<input type="checkbox"/>	5	150	F5

Figure 7

Participant Table

SQL Code:

```
CREATE TABLE participant
(
    participant_id INT(15),
    first_name varchar(15)NOT NULL,
    last_name varchar(15)NOT NULL,
    Edu_Qualification varchar(50) NOT NULL,
    Pro_Qualification varchar(50)NOT NULL,
    designation varchar(40) NOT NULL,
    mobile_number int(12) NOT NULL,
    land_number int(12) NOT NULL,
```

```

email varchar(30) NOT NULL,
PRIMARY KEY(participant_id)
);

```

Generated table:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntid_workshop_system
- Table:** participant
- Structure:** Shows the table structure with columns: participant_ID (INT(15)), first_name (varchar(15) NOT NULL), last_name (varchar(15) NOT NULL), Edu_Qualification (varchar(50) NOT NULL), Pro_Qualification (varchar(50) NOT NULL), designation (varchar(40) NOT NULL), mobile_number (int(12) NOT NULL), land_number (int(12) NOT NULL), and email (varchar(30) NOT NULL).
- Operations:** Buttons for Edit inline, Edit, Create PHP code, and Refresh.
- Information:** MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

Figure 8

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntid_workshop_system
- Table:** participant
- Structure:** Shows the table structure with columns: participant_ID, first_name, last_name, Edu_Qualification, Pro_Qualification, designation, mobile_number, land_number, and email.
- Operations:** Buttons for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers.
- Information:** MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

Figure 9

Add “work_place_location” column to “participant “ table

SQL Code:

```

ALTER TABLE participant
ADD work_place_location varchar(50) NOT NULL;

```

Generated table:

phpMyAdmin

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: participant

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

SELECT * FROM `participant`

participant_ID first_name last_name Edu_Qualification Pro_Qualification designation mobile_number land_number email Work_Place_Location

Query results operations Create view

Figure 10

Chief_coordinator_Table

SQL Code:

```
CREATE TABLE chief_coordinator
```

```
(
```

```
chiefcoordinator_id int(15),
management_skill varchar(30) NOT NULL,
staff_id int(15) NOT NULL,
PRIMARY KEY(staff_id),
FOREIGN KEY(staff_id)REFERENCES staff(staff_id)
```

```
);
```

Generated table:

phpMyAdmin

Server: 127.0.0.1 » Database: ntid_workshop_system

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Mon

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

CREATE TABLE chief_coordinator (chiefcoordinator_id int(15), management_skill varchar(30) NOT NULL, staff_id int(15) NOT NULL, PRIMARY KEY(chiefcoordinator_id), FOREIGN KEY(staff_id)REFERENCES staff(staff_id));

Edit inline [Edit] [Create PHP code]

Figure 11

The screenshot shows the phpMyAdmin interface for a MySQL database named 'niti_workshop_system'. The current table is 'chief_coordinator'. The left sidebar lists databases like 'information_schema', 'mega_firm_db', and 'mysql'. The main area has tabs for 'Browse', 'Structure', 'SQL', etc. A query box at the top right shows the result of a SELECT query: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)'. Below it is the SQL code: 'SELECT * FROM chief_coordinator;'. A table below shows columns: 'chiefcoordinator_id', 'management_skill', and 'staff_id'.

```
SELECT * FROM chief_coordinator;
```

Figure 12

Add “name” column to ‘chief_coordinator’ table

SQL Code:

```
ALTER TABLE chief_coordinator  
ADD email varchar(30);
```

Generated table:

The screenshot shows the phpMyAdmin interface for the same database and table. The query box now displays the result of an ALTER TABLE query: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)'. The SQL code shown is 'ALTER TABLE chief_coordinator ADD email varchar(30);'. The table structure remains the same with columns 'chiefcoordinator_id', 'management_skill', and 'staff_id'.

```
ALTER TABLE chief_coordinator ADD email varchar(30);
```

Figure 13

Showing rows 0 - 3 (4 total, Query took 0.0003 seconds.)

```
SELECT * FROM `chief_coordinator`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

```
UPDATE `chief_coordinator` SET `email` = 'avisha23@gmail.com' WHERE `chief_coordinator`.`staff_id` = 10000104;
```

[Edit inline] [Edit] [Create PHP code]

	chiefcoordinator_id	management_skill	staff_id	email
<input type="checkbox"/>	10001	Good Leadership	10000101	nuwan2@gmail.com
<input type="checkbox"/>	10002	Decision-making	10000102	ashen5@gmail.com
<input type="checkbox"/>	10003	Planning and organization	10000103	pasindu2021@gmail.com
<input type="checkbox"/>	10004	Emotional intelligence	10000104	avisha23@gmail.com

Figure 14

Add “name” column to ‘chief_coordinator’ table

SQL Code:

ALTER TABLE chief_coordinator

ADD name varchar(30);

Generated table:

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
ALTER TABLE chief_coordinator ADD name varchar(30);
```

[Edit inline] [Edit] [Create PHP code]

Figure 15

Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

```

SELECT * FROM `chief_coordinator`

UPDATE `chief_coordinator` SET `name` = 'avisha ravindi' WHERE `chief_coordinator`.`staff_id` = 10000104;

```

	chiefcoordinator_id	management_skill	staff_id	email	name
<input type="checkbox"/>	10001	Good Leadership	10000101	nuwan2@gmail.com	nuwan perera
<input type="checkbox"/>	10002	Decision-making	10000102	ashen5@gmail.com	ashen deshapriya
<input type="checkbox"/>	10003	Planning and organization	10000103	pasindu2021@gmail.com	pasindu silva
<input type="checkbox"/>	10004	Emotional intelligence	10000104	avisha23@gmail.com	avisha ravindi

Figure 16

Resource_Person_Table

SQL Code:

```

CREATE TABLE Resource_person
(
    resource_person_id int(10) NOT NULL,
    staff_id int(10),
    catagory varchar(15) NOT NULL,
    specialization varchar(50) NOT NULL,
    PRIMARY KEY(staff_id),
    FOREIGN KEY(staff_id)REFERENCES staff(staff_id)
);

```

Generated table:

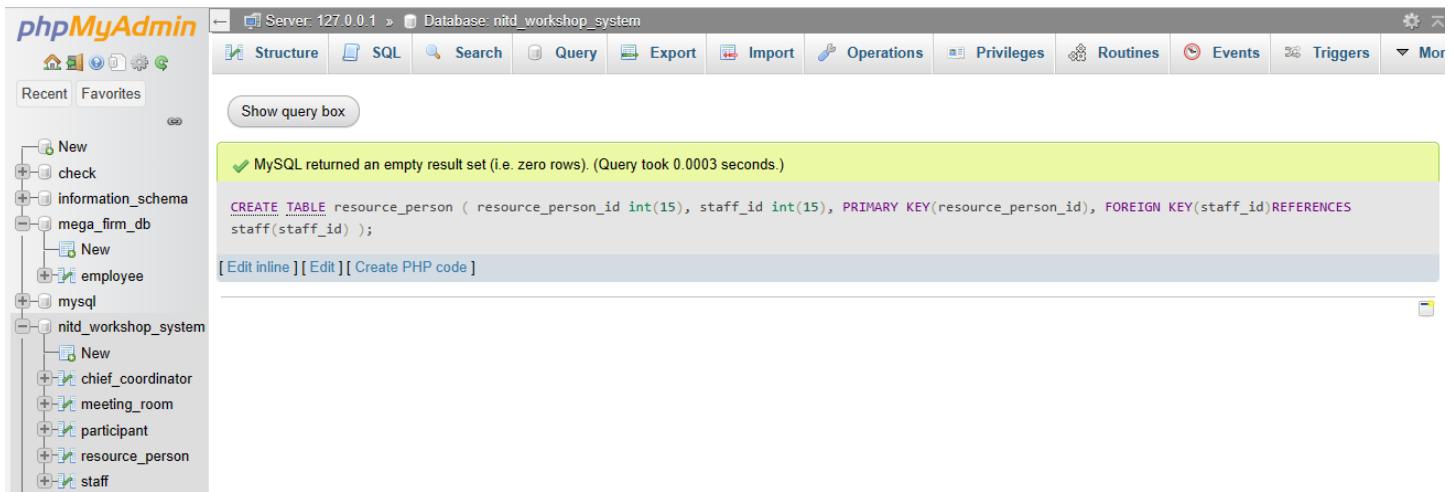


Figure 17

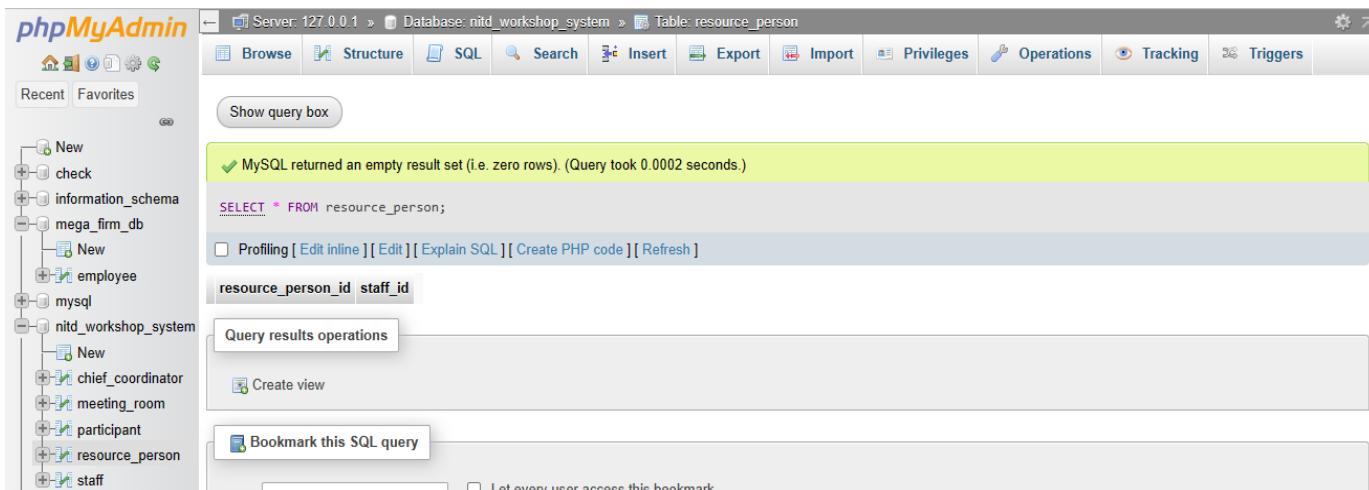


Figure 18

Add “hourly rate” column to ‘resource_person’ table.

SQL Code:

```
ALTER TABLE resource_person  
ADD hourly_rate int(15) NOT NULL;
```

Generated table:



Figure 19

Showing rows 0 - 3 (4 total, Query took 0.0006 seconds.)						
<input type="checkbox"/> Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]						
<input type="checkbox"/> Show all Number of rows: 25 Filter rows: Search this table Sort by key: None						
Extra options						
resource_person_id	staff_id	catagory	specialization	hourly_rate		
100001	10000105	entrepreneur	leadership	10000	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy
100002	10000106	academic	Time management	6000	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy
100003	10000107	industry expert	Problem-solving	20000	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy
100004	10000108	entrepreneur	Time management	12000	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy

Figure 20

Add “Name” column to ‘resource_person’ table

SQL Code:

ALTER TABLE resource_person

ADD name varchar(30);

Generated table:

The screenshot shows the phpMyAdmin interface for the 'nltd_workshop_system' database. The 'resource_person' table is selected. The table structure includes columns: resource_person_id, staff_id, category, specialization, hourly_rate, and name. The data shows four entries:

resource_person_id	staff_id	category	specialization	hourly_rate	name
100001	10000105	entrepreneur	leadership	10000	Samantha perera
100002	10000106	academic	Time management	6000	Anil Kumara
100003	10000107	industry expert	Problem-solving	20000	Niromi Kodithuwakku
100004	10000108	entrepreneur	Time management	12000	jayantha rodrigo

Figure 21

Add “email” column to ‘resource_person’ table

SQL Code:

ALTER TABLE resource_person

ADD email varchar(30);

Generated table:

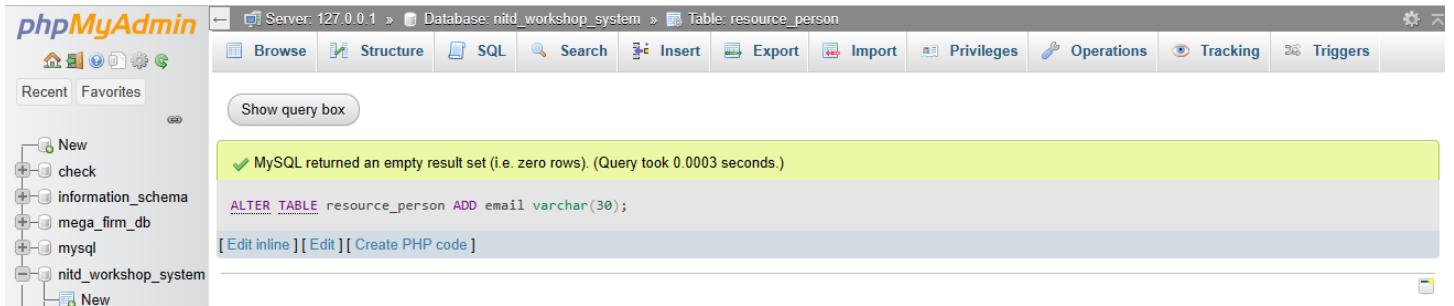


Figure 22

Server: 127.0.0.1 > Database: nild_workshop_system > Table: resource_person

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

```
SELECT * FROM `resource_person`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

```
UPDATE `resource_person` SET `email` = 'jayanthaj@gmail.com' WHERE `resource_person`.`staff_id` = 10000108;
```

[Edit inline] [Edit] [Create PHP code]

	resource_person_id	staff_id	catagory	specialization	hourly_rate	name	email
<input type="checkbox"/>	100001	10000105	entrepreneur	leadership	10000	Samantha perera	samantha1@gmail.com
<input type="checkbox"/>	100002	10000106	academic	Time management	6000	Anil Kumara	anil99@gmail.com
<input type="checkbox"/>	100003	10000107	industry expert	Problem-solving	20000	Niromi Kodithuwakku	niromi123@gmail.com
<input type="checkbox"/>	100004	10000108	entrepreneur	Time management	12000	jayantha rodrigo	jayanthaj@gmail.com

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

Activate Windows
Go to Settings to activate Windows.

Figure 23

Workshop_coordinator Table

SQL Code:

```
CREATE TABLE workshop_coordinator
(
    workshop_coordinator_id int(15),
    staff_id int(10),
    PRIMARY KEY(staff_id),
    FOREIGN KEY(staff_id)REFERENCES Staff(staff_id)
);
```

Generated table:

The screenshot shows the phpMyAdmin interface for a MySQL database named 'niti_workshop_system'. In the left sidebar, under the 'niti_workshop_system' database, there is a table named 'workshop_coordinator'. The table structure is as follows:

```
CREATE TABLE workshop_coordinator ( workshop_coordinator_id int(15), staff_id int(10), PRIMARY KEY(workshop_coordinator_id), FOREIGN KEY(staff_id)REFERENCES Staff(staff_id) );
```

Below the table structure, there are links for [Edit inline], [Edit], and [Create PHP code].

The screenshot shows the phpMyAdmin interface for the same MySQL database. This time, the user has run a SELECT query on the 'workshop_coordinator' table:

```
SELECT * FROM workshop_coordinator;
```

The results of the query are displayed in a table with columns: workshop_coordinator_id and staff_id. There are no rows present.

Figure 24

Figure 25

Add “Name” column to ‘workshop_coordinator’ table

SQL Code:

```
ALTER TABLE workshop_coordinator
```

```
ADD name varchar(30);
```

Generated table:

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: workshop_coordinator

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
ALTER TABLE workshop_coordinator ADD name varchar(30);
```

[Edit inline] [Edit] [Create PHP code]

Figure 26

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: workshop_coordinator

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

Showing rows 0 - 3 (4 total, Query took 0.0002 seconds.)

```
SELECT * FROM `workshop_coordinator`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

```
UPDATE `workshop_coordinator` SET `name` = 'hivin perera' WHERE `workshop_coordinator`.`staff_id` = 10000112;
```

[Edit inline] [Edit] [Create PHP code]

	workshopCoordinator_id	staff_id	name
<input type="checkbox"/>	11101	10000109	Ayesh kumara
<input type="checkbox"/>	11102	10000110	ayush tishan
<input type="checkbox"/>	11103	10000111	Dinithi sewmini
<input type="checkbox"/>	11104	10000112	hivin perera

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

Activate Windows
Go to Settings to activate Windows.

Figure 27

Add “Email” column to ‘workshop_coordinator’ table

SQL Code:

ALTER TABLE workshop_coordinator

ADD email varchar(30);

Generated table:

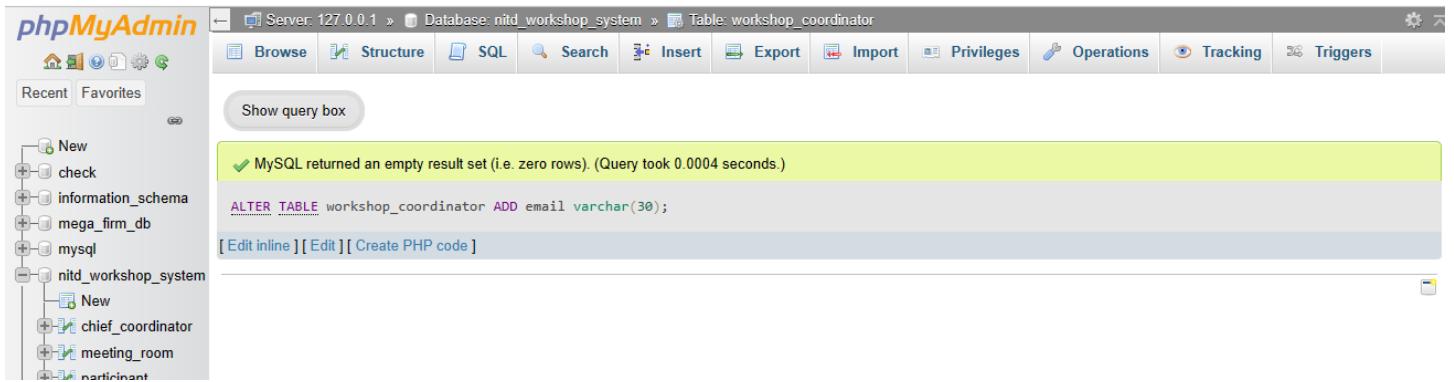


Figure 28

workshop_coordinator					
	workshop_coordinator_id	staff_id	name	email	
<input type="checkbox"/>	11101	10000109	Ayesh kumara	ayesh21@gmail.com	Edit Copy Delete
<input type="checkbox"/>	11102	10000110	ayush tishan	ayush111@gmail.com	Edit Copy Delete
<input type="checkbox"/>	11103	10000111	Dinithi sewmini	dinithi2005@gmail.com	Edit Copy Delete
<input type="checkbox"/>	11104	10000112	hivin perera	hivin88@gmail.com	Edit Copy Delete

Figure 29

Workshop Table

SQL Code:

```
CREATE TABLE workshop
(
    workshop_id int(15),
    name varchar(30) NOT NULL,
    type varchar(30) NOT NULL,
    max_capacity int(10) NOT NULL,
    reg_fee int(20) NOT NULL,
    start_date date NOT NULL,
```

```

end_date date NOT NULL,
staff_id int(15),
PRIMARY KEY(workshop_id),
FOREIGN KEY(staff_id)REFERENCES staff(staff_id)
);

```

Generated table:

The screenshot shows the phpMyAdmin interface for a MySQL database named 'nbt_workshop_system'. The left sidebar lists databases, schemas, and tables. In the main area, a query has been run to create a table named 'workshop' with the following structure:

```

CREATE TABLE workshop (
    workshop_id int(15),
    name varchar(30) NOT NULL,
    type varchar(30) NOT NULL,
    max_capacity int(10) NOT NULL,
    reg_fee int(20) NOT NULL,
    start_date date NOT NULL,
    end_date date NOT NULL,
    staff_id int(15),
    PRIMARY KEY(workshop_id),
    FOREIGN KEY(staff_id)REFERENCES staff(staff_id)
);

```

The status bar at the bottom indicates that MySQL returned an empty result set (0 rows) in 0.0003 seconds.

Figure 30

This screenshot shows the phpMyAdmin interface for the 'workshop' table within the 'nbt_workshop_system' database. The left sidebar shows the database structure. The main area displays the table structure:

```

CREATE TABLE workshop (
    workshop_id int(15),
    name varchar(30) NOT NULL,
    type varchar(30) NOT NULL,
    max_capacity int(10) NOT NULL,
    reg_fee int(20) NOT NULL,
    start_date date NOT NULL,
    end_date date NOT NULL,
    staff_id int(15),
    PRIMARY KEY(workshop_id),
    FOREIGN KEY(staff_id)REFERENCES staff(staff_id)
);

```

Below the structure, there are several operation buttons: 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. A message at the top states: "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)".

Figure 31

Session Table

SQL Code:

```
CREATE TABLE session
(
    session_id int(15),
    discussion_topic varchar(30) NOT NULL,
    venue date NOT NULL,
    start_time varchar(15) NOT NULL,
    end_time varchar(15) NOT NULL,
    room_id int(15),
    workshop_id int(15),
    PRIMARY KEY(session_id),
    FOREIGN KEY(room_id)REFERENCES meeting_room(room_id),
    FOREIGN KEY(workshop_id)REFERENCES workshop(workshop_id)
);
```

Generated table:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntid_workshop_system
- Structure Tab:** Active tab.
- Query Box:** Shows the SQL code for creating the 'session' table.
- Message Bar:** Displays the message: "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)"
- Table Structure:** The 'session' table is listed under the 'ntid_workshop_system' database. It has the following columns:
 - session_id (int(15), Primary Key)
 - discussion_topic (varchar(30), NOT NULL)
 - venue (date, NOT NULL)
 - start_time (varchar(15), NOT NULL)
 - end_time (varchar(15), NOT NULL)
 - room_id (int(15), Foreign Key referencing 'meeting_room(room_id)')
 - workshop_id (int(15), Foreign Key referencing 'workshop(workshop_id)')
- Action Buttons:** [Edit inline] [Edit] [Create PHP code]

Figure 32

The screenshot shows the phpMyAdmin interface for a MySQL database. The left sidebar displays the database schema with several databases listed, including 'ntd_workshop_system'. The main area is titled 'Table: session' under 'Database: ntd_workshop_system'. The top navigation bar includes 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. A message box at the top states 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)'. Below this, a SQL query is shown: 'SELECT * FROM session;'. There are several buttons for managing the query: 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A table structure is displayed with columns: session_id, discussion_topic, venue, start_time, end_time, room_id, and workshop_id. Below the table, there are 'Query results operations' such as 'Create view' and 'Bookmark this SQL query'. A 'Label' input field is present with the option 'Let every user access this bookmark'.

Figure 33

Session_participant Table

SQL Code:

```
CREATE TABLE session_participant
(
    session_id int(15),
    participant_id int(15),
    PRIMARY KEY(session_id,participant_id),
    FOREIGN KEY(session_id)REFERENCES session(session_id),
    FOREIGN KEY(participant_id)REFERENCES participant(participant_id)
```

);

Generated table:

The screenshot shows the phpMyAdmin interface with the database 'nltd_workshop_system' selected. In the left sidebar, under the 'nltd_workshop_system' schema, there is a table named 'session_participant'. The main query window displays the SQL code for creating this table:

```
CREATE TABLE session_participant ( session_id int(15), participant_id int(15), PRIMARY KEY(session_id,participant_id), FOREIGN KEY(session_id)REFERENCES session(session_id), FOREIGN KEY(participant_id)REFERENCES participant(participant_id) );
```

The status bar at the top indicates: MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

Figure 34

The screenshot shows the phpMyAdmin interface with the database 'nltd_workshop_system' selected. The 'session_participant' table is now selected in the left sidebar. The main query window displays the SQL code for selecting all columns from the 'session_participant' table:

```
SELECT * FROM session_participant;
```

The status bar at the top indicates: MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

Figure 35

Workshop_participant Table

SQL Code:

```
CREATE TABLE workshop_participant
(
    workshop_id int(15),
    participant_id int(15),
    PRIMARY KEY(workshop_id,participant_id),
    FOREIGN KEY(workshop_id)REFERENCES workshop(workshop_id),
    FOREIGN KEY(participant_id)REFERENCES participant(participant_id)
```

);

Generated table:

The screenshot shows the phpMyAdmin interface for a database named 'niti_workshop_system'. In the left sidebar, under the 'niti_workshop_system' schema, there is a table named 'workshop_participant'. The main area displays the SQL query used to create this table:

```
CREATE TABLE workshop_participant ( workshop_id int(15), participant_id int(15), PRIMARY KEY(workshop_id,participant_id), FOREIGN KEY(workshop_id) REFERENCES workshop(workshop_id), FOREIGN KEY(participant_id) REFERENCES participant(participant_id) );
```

Below the query, there are links for [Edit inline], [Edit], and [Create PHP code].

Figure 36

The screenshot shows the phpMyAdmin interface for the 'niti_workshop_system' database, specifically for the 'workshop_participant' table. The left sidebar shows the table structure with columns 'workshop_id' and 'participant_id'. The main area displays the SQL query used to select all columns from the table:

```
SELECT * FROM workshop_participant;
```

Below the query, there are links for Profiling, Edit inline, Edit, Explain SQL, Create PHP code, and Refresh.

Figure 37

Workshop_meeting Table

SQL Code:

```
CREATE TABLE librarian_phone
(
    librarian_code int(10),
    phone_number int(10),
    PRIMARY KEY(librarian_code,phone_number),
    FOREIGN KEY(librarian_code)REFERENCES librarian(librarian_code)
```

);

Generated table:

The screenshot shows the phpMyAdmin interface for a database named 'nld_workshop_system'. The current table is 'workshop_meetingroom'. The SQL query window displays the following results:

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)  
SELECT * FROM workshop_meetingroom;  
workshop_id room_id
```

Figure 38

The screenshot shows the phpMyAdmin interface for a database named 'nld_workshop_system'. The current table is 'workshop_meetingroom'. The SQL query window displays the following code:

```
CREATE TABLE workshop_meetingroom ( workshop_id int(15), room_id int(15), PRIMARY KEY(workshop_id,room_id), FOREIGN KEY(workshop_id) REFERENCES workshop(workshop_id), FOREIGN KEY(room_id) REFERENCES meeting_room(room_id) );
```

Figure 39

SQL query for data insertion

Staff Table

SQL code:

```
INSERT INTO `staff`(`Staff_ID`, `Name`, `Pro_Qualification`, `Edu_Qualification`)
```

```
VALUES
```

('10000101','Gawesh Gomes','3 years working experience in management industry','BSc Hons data management'),
 ('10000102','Radil damsara','Project Management Professional (PMP) for project managers','Certificate in Human Resources Management'),
 ('10000103','Dinushi Wanniarachchie','Experience using Salesforce for sales roles','Bachelors degree of political Science'),
 ('10000104','Diyathma Wijewardana','Proficiency in Microsoft Office Suite for administrative roles','Fluency in multiple programming languages for software development roles'),
 ('10000105','Sehandu Siriwardhana','2 years working experience ','Certified Public Accountant (CPA) for accounting and finance professionals'),
 ('10000106','Yeran rajapaksha','Certified Manager','Bachelor of Business Administration (BBA)'),
 ('10000107','tharusha silva','Certified Supply Chain Professional ','Bachelor of Commerce (B.Com)'),
 ('10000108','sandeep thisath','Certified Information Systems Security Professional (CISSP)','Executive MBA (EMBA)'),
 ('10000109','vanuja de silva','charted manager','Postgraduate Diploma in Management (PGDM)'),
 ('10000110','devidi perera','6 years working experience','Master of Management Studies (MMS)'),
 ('10000111','maneesha costa','Project manager in ABC company','Project Management Professional (PMP)'),
 ('10000112','chandima kadagoda','Resource manager in XYZ company','Certified Management Accountant (CMA)');

Generated Table:

The screenshot shows the phpMyAdmin interface for the 'staff' table in the 'niti_workshop_system' database. The table structure is as follows:

	Staff_ID	Name	Pro_Qualification	Edu_Qualification
<input type="checkbox"/>	10000101	Gawesh Gomes	3 years working experience in management industry	BSc Hons data management
<input type="checkbox"/>	10000102	Radil damsara	Project Management Professional (PMP) for project	Certificate in Human Resources Management
<input type="checkbox"/>	10000103	Dinushi Wanniarachchie	Experience using Salesforce for sales roles	Bachelors degree of political Science
<input type="checkbox"/>	10000104	Diyathma Wijewardana	Proficiency in Microsoft Office Suite for administ	Fluency in multiple programming languages for soft
<input type="checkbox"/>	10000105	Sehandu Siriwardhana	2 years working experience	Certified Public Accountant (CPA) for accounting a

Figure 40

Meeting_room Table

SQL Code:

```
INSERT INTO `meeting_room`(`Room_ID`, `Capacity`)
```

VALUES

```
('001','40'),  
('002','30'),  
('003','60'),  
('004','80'),  
('005','150');
```

Generated Table:

The screenshot shows the phpMyAdmin interface for the 'niti_workshop_system' database. The left sidebar lists various schemas and tables. The 'meeting_room' table is selected in the main area. A green status bar at the top indicates 'Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)'. Below it, a SQL query 'SELECT * FROM `meeting_room`' is displayed. The table itself has columns 'Room ID' and 'Capacity'. Five rows are listed, corresponding to the values provided in the 'VALUES' section. At the bottom, there are buttons for 'Check all', 'With selected:', and actions like 'Edit', 'Copy', and 'Delete'.

Room ID	Capacity
1	40
2	30
3	60
4	80
5	150

Figure 41

Participant table

SQL Code:

```
INSERT INTO `participant`(`participant_ID`, `first_name`, `last_name`, `Edu_Qualification`,  
`Pro_Qualification`, `designation`, `mobile_number`, `land_number`, `email`, `Work_Place_Location`)  
VALUES  
('1001','dewmi','silva','Advanced Level','Chartered Accountant (CA)','sales  
manager','0761328236','0119876543','dewmisilva1@gmail.com','kandy'),  
('1002','vihindi','perera','Executive MBA (EMBA)','Certified Public Accountant (CPA)','HR  
manager','0778201138','0386745534','vihindiperera2@gmail.com','colombo'),  
('1003','vinuka','silva','Bachelor of Commerce ','Certified Information Systems Auditor (CISA)','Production  
manager','0786756453','0113423456','vinukasilva3@gmail.com','galle'),  
('1004','thariq','mustapha','Master of Science in Management','Certified Internal Auditor','Markerting  
manager','0754511579','0112734567','thariqq1@gmail.com','jaffna'),  
('1005','sanali','menushi','Project Management Professional','Professional Engineer','Financial  
manager','0712345678',[0119856743],'sanalimenushi9@gmail.com','mathara');
```

Generated table:

phpMyAdmin

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: participant

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

5 rows inserted. (Query took 0.0004 seconds.)

```
INSERT INTO `participant`(`participant_ID`, `first_name`, `last_name`, `Edu_Qualification`, `Pro_Qualification`, `designation`, `mobile_number`, `land_number`, `email`, `Work_Place_Location`) VALUES ('1001','dewmi','silva','Advanced Level','Chartered Accountant (CA)','sales manager','0761328236','0119876543','dewmisilva@gmail.com','kandy'), ('1002','vihindi','perera','Executive MBA (EMBA)','Certified Public Accountant (CPA)','HR manager','0778201138','0386745534','vihindiperera2@gmail.com','colombo'), ('1003','vinuka','silva','Bachelor of Commerce ','Certified Information Systems Auditor (CISA)','Production manager','0786756453','0113423456','vinukasilva3@gmail.com','galle'), ('1004','thariq','mustapha','Master of Science in Management','Certified Internal Auditor','Marketing manager','754511579','112734567','thariqmustapha@gmail.com','noida'), ('1005','sanali','menushi','Project Management Professional','Professional Engineer','Financial manager','712345678','0','sanali')
```

[Edit]

Warning: #1366 Incorrect integer value: '0119856743' for column 'ntid_workshop_system`.`participant`.`land_number` at row 5

Figure 42

phpMyAdmin

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: participant

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

SELECT * FROM `participant`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	participant_ID	first_name	last_name	Edu_Qualification	Pro_Qualification	designation	mobile_number	land_number	email
<input type="checkbox"/>	1001	dewmi	silva	Advanced Level	Chartered Accountant (CA)	sales manager	761328236	119876543	dewm
<input type="checkbox"/>	1002	vihindi	perera	Executive MBA (EMBA)	Certified Public Accountant (CPA)	HR manager	778201138	386745534	vihind
<input type="checkbox"/>	1003	vinuka	silva	Bachelor of Commerce	Certified Information Systems Auditor (CISA)	Production manager	786756453	113423456	vinuka
<input type="checkbox"/>	1004	thariq	mustapha	Master of Science in Management	Certified Internal Auditor	Marketing manager	754511579	112734567	thariq
<input type="checkbox"/>	1005	sanali	menushi	Project Management Professional	Professional Engineer	Financial manager	712345678	0	sanali

Console Bookmarks Options History Clear

Figure 43

Chief_coordinator Table

SQL Code:

```

INSERT INTO `chief_coordinator`(`chiefcoordinator_id`, `management_skill`, `staff_id`)
VALUES
('10001','Good Leadership','10000101'),
('10002','Decision-making','10000102'),
('10003','Planning and organization','10000103'),
('10004','Emotional intelligence','10000104');

```

Generated table:

The screenshot shows the phpMyAdmin interface for a database named 'nild_workshop_system'. The 'chief_coordinator' table is selected. The SQL query executed was:

```

INSERT INTO `chief_coordinator`(`chiefcoordinator_id`, `management_skill`, `staff_id`)
VALUES
('10001','Good Leadership','10000101'),
('10002','Decision-making','10000102'),
('10003','Planning and organization','10000103'),
('10004','Emotional intelligence','10000104');

```

The result of the query is displayed in a green box: "4 rows inserted. (Query took 0.0004 seconds.)".

Figure 44

Showing rows 0 - 3 (4 total, Query took 0.0003 seconds.)

```
SELECT * FROM `chief_coordinator`
```

	chiefcoordinator_id	management_skill	staff_id
<input type="checkbox"/>	10001	Good Leadership	10000101
<input type="checkbox"/>	10002	Decision-making	10000102
<input type="checkbox"/>	10003	Planning and organization	10000103
<input type="checkbox"/>	10004	Emotional intelligence	10000104

Figure 45

Resource_person_table

SQL Code:

```
INSERT INTO `resource_person`(`resource_person_id`, `staff_id`, `catagory`, `specialization`)
VALUES
('100001','10000105','entrepreneur','leadership'),
('100002','10000106','academic','Time management'),
('100003','10000107','industry experts','Problem-solving'),
('100004','10000108','entrepreneur','Time management');
```

Generated table:

phpMyAdmin

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: resource_person

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Show query box

4 rows inserted. (Query took 0.0004 seconds.)

```
INSERT INTO `resource_person`(`resource_person_id`, `staff_id`, `catagory`, `specialization`) VALUES
('100001', '10000105', 'entrepreneur', 'leadership'), ('100002', '10000106', 'academic', 'Time management'), ('100003', '10000107', 'industry experts', 'Problem-solving'), ('100004', '10000108', 'entrepreneur', 'Time management');
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1265 Data truncated for column 'catagory' at row 3

Figure 46

phpMyAdmin

Server: 127.0.0.1 » Database: ntid_workshop_system » Table: resource_person

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 3 (4 total, Query took 0.0003 seconds.)

```
SELECT * FROM `resource_person`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	resource_person_id	staff_id	catagory	specialization
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	100001	10000105	entrepreneur	leadership
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	100002	10000106	academic	Time management
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	100003	10000107	industry expert	Problem-solving
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	100004	10000108	entrepreneur	Time management

Check all With selected:

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Figure 47

Workshop_coordinator table

SQL Code:

```
INSERT INTO `workshop_coordinator`(`workshop_coordinator_id`, `staff_id`)
VALUES
('11101','10000109'),
('11102','10000110'),
('11103','10000111'),
('11104','10000112');
```

Generated table:

The screenshot shows the phpMyAdmin interface for a MySQL database named 'nltd_workshop_system'. The 'workshop_coordinator' table is selected. The SQL query executed was:

```
INSERT INTO `workshop_coordinator`(`workshop_coordinator_id`, `staff_id`) VALUES ('11101','10000109'), ('11102','10000110'), ('11103','10000111'), ('11104','10000112');
```

The result of the query is displayed in a green box: "4 rows inserted. (Query took 0.0015 seconds.)".

Figure 48

Showing rows 0 - 3 (4 total, Query took 0.0002 seconds.)

```
SELECT * FROM `workshop_coordinator`
```

Extra options

	workshop_coordinator_id	staff_id
<input type="checkbox"/>	11101	10000109
<input type="checkbox"/>	11102	10000110
<input type="checkbox"/>	11103	10000111
<input type="checkbox"/>	11104	10000112

With selected: Check all Edit Copy Delete Export

Figure 49

Workshop Table

SQL Code:

```
INSERT INTO `workshop`(`workshop_id`, `name`, `type`, `max_capacity`, `reg_fee`, `start_date`, `end_date`, `staff_id`)
```

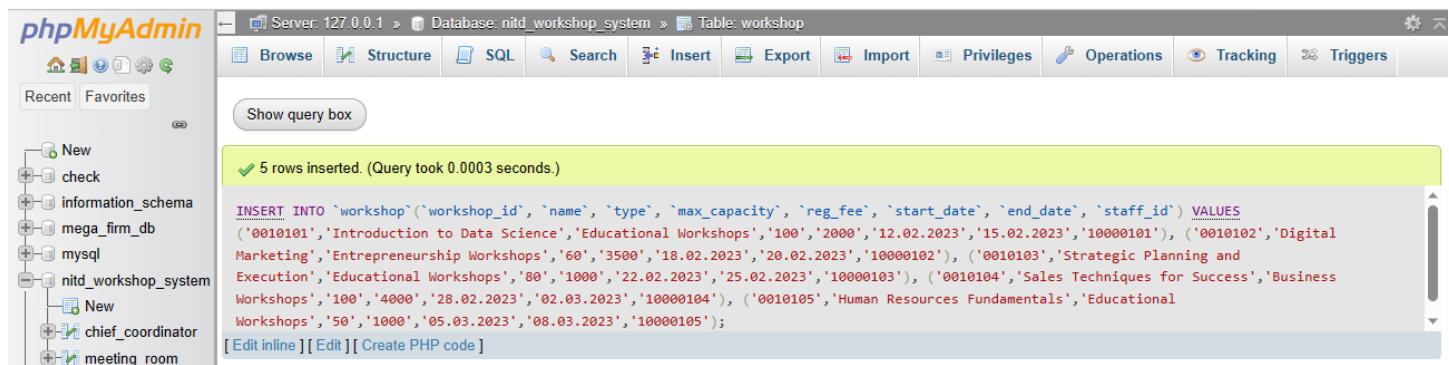
VALUES

```
('0010101','Introduction to Data Science','Educational Workshops','100','2000','12.02.2023','15.02.2023','10000101'),
```

```
('0010102','Digital Marketing','Entrepreneurship Workshops','60','3500','18.02.2023','20.02.2023','10000102'),
```

('0010103','Strategic Planning and Execution','Educational Workshops','80','1000','22.02.2023','25.02.2023','10000103'),
 ('0010104','Sales Techniques for Success','Business Workshops','100','4000','28.02.2023','02.03.2023','10000104'),
 ('0010105','Human Resources Fundamentals','Educational Workshops','50','1000','05.03.2023','08.03.2023','10000105');

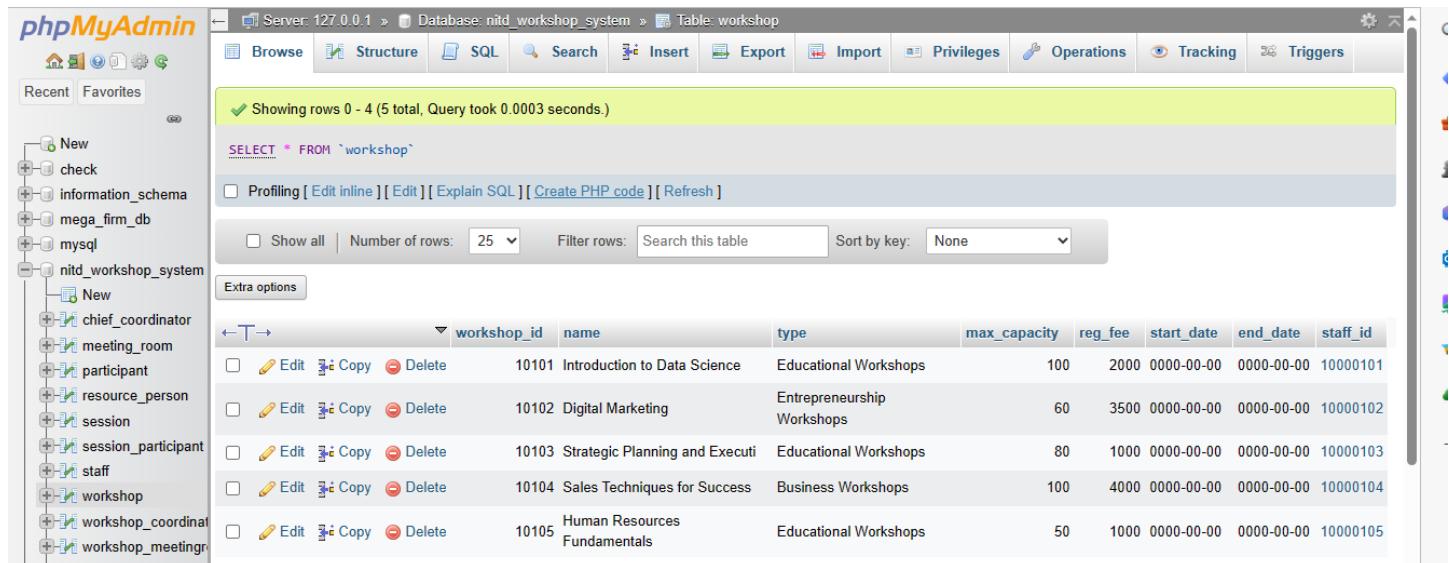
Generated table:



The screenshot shows the phpMyAdmin interface for the 'workshop' table in the 'nltd_workshop_system' database. The table has 5 rows inserted, as indicated by the message '5 rows inserted. (Query took 0.0003 seconds.)'. The SQL query shown is:

```
INSERT INTO `workshop`(`workshop_id`, `name`, `type`, `max_capacity`, `reg_fee`, `start_date`, `end_date`, `staff_id`) VALUES
('0010101', 'Introduction to Data Science', 'Educational Workshops', '100', '2000', '12.02.2023', '15.02.2023', '10000101'), ('0010102', 'Digital Marketing', 'Entrepreneurship Workshops', '60', '3500', '18.02.2023', '20.02.2023', '10000102'), ('0010103', 'Strategic Planning and Execution', 'Educational Workshops', '80', '1000', '22.02.2023', '25.02.2023', '10000103'), ('0010104', 'Sales Techniques for Success', 'Business Workshops', '100', '4000', '28.02.2023', '02.03.2023', '10000104'), ('0010105', 'Human Resources Fundamentals', 'Educational Workshops', '50', '1000', '05.03.2023', '08.03.2023', '10000105');
```

Figure 50



The screenshot shows the phpMyAdmin interface for the 'workshop' table in the 'nltd_workshop_system' database. The table displays 5 rows of data, as indicated by the message 'Showing rows 0 - 4 (total, Query took 0.0003 seconds.)'. The SQL query shown is:

```
SELECT * FROM `workshop`
```

	workshop_id	name	type	max_capacity	reg_fee	start_date	end_date	staff_id
<input type="checkbox"/>	10101	Introduction to Data Science	Educational Workshops	100	2000	0000-00-00	0000-00-00	10000101
<input type="checkbox"/>	10102	Digital Marketing	Entrepreneurship Workshops	60	3500	0000-00-00	0000-00-00	10000102
<input type="checkbox"/>	10103	Strategic Planning and Execution	Educational Workshops	80	1000	0000-00-00	0000-00-00	10000103
<input type="checkbox"/>	10104	Sales Techniques for Success	Business Workshops	100	4000	0000-00-00	0000-00-00	10000104
<input type="checkbox"/>	10105	Human Resources Fundamentals	Educational Workshops	50	1000	0000-00-00	0000-00-00	10000105

Figure 51

Session Table

SQL Code:

```
INSERT INTO `session`(`session_id`, `discussion_topic`, `venue`, `start_time`, `end_time`, `room_id`, `workshop_id`)
VALUES
```

```
('10000001','introduction to programming','12.02.2023','09.00','11.00','005','0010101'),
('10000002','Sales techniques for salesmen','28.02.2023','11.00','13.00','005','0010104'),
('10000003','introduction to digital marketing','18.02.2023','10.00','12.00','003','0010102'),
('10000004','1st stage of strategic planning','22.02.2023','14.00','17.00','005','0010103'),
('10000005','introduction to human resource fundamentals','05.03.2023','13.00','15.00','003','0010105');
```

Generated table:

The screenshot shows the phpMyAdmin interface for the 'niti_workshop_system' database. The 'session' table is selected. A success message at the top indicates '5 rows inserted. (Query took 0.0005 seconds.)'. Below it, the SQL query is displayed:

```
INSERT INTO `session`(`session_id`, `discussion_topic`, `venue`, `start_time`, `end_time`, `room_id`, `workshop_id`)
VALUES
('10000001','introduction to programming','12.02.2023','09.00','11.00','005','0010101'),
('10000002','Sales techniques for salesmen','28.02.2023','11.00','13.00','005','0010104'),
('10000003','introduction to digital marketing','18.02.2023','10.00','12.00','003','0010102'),
('10000004','1st stage of strategic planning','22.02.2023','14.00','17.00','005','0010103'),
('10000005','introduction to human resource fundamentals','05.03.2023','13.00','15.00','003','0010105');
```

Figure 52

The screenshot shows the phpMyAdmin interface for the 'niti_workshop_system' database. The 'session' table is selected. A success message at the top indicates 'Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)'. Below it, the SQL query is displayed:

```
SELECT * FROM `session`
```

The table data is as follows:

	session_id	discussion_topic	venue	start_time	end_time	room_id	workshop_id
<input type="checkbox"/>	10000001	introduction to programming	0000-00-00	09.00	11.00	5	10101
<input type="checkbox"/>	10000002	Sales techniques for salesmen	0000-00-00	11.00	13.00	5	10104
<input type="checkbox"/>	10000003	introduction to digital market	0000-00-00	10.00	12.00	3	10102
<input type="checkbox"/>	10000004	1st stage of strategic plannin	0000-00-00	14.00	17.00	5	10103
<input type="checkbox"/>	10000005	introduction to human resource	0000-00-00	13.00	15.00	3	10105

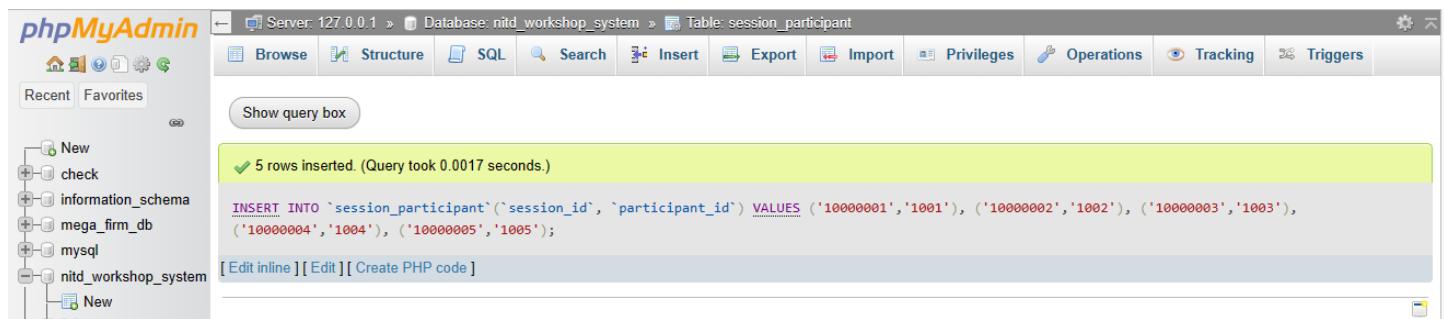
Figure 53

Session_Participant Table

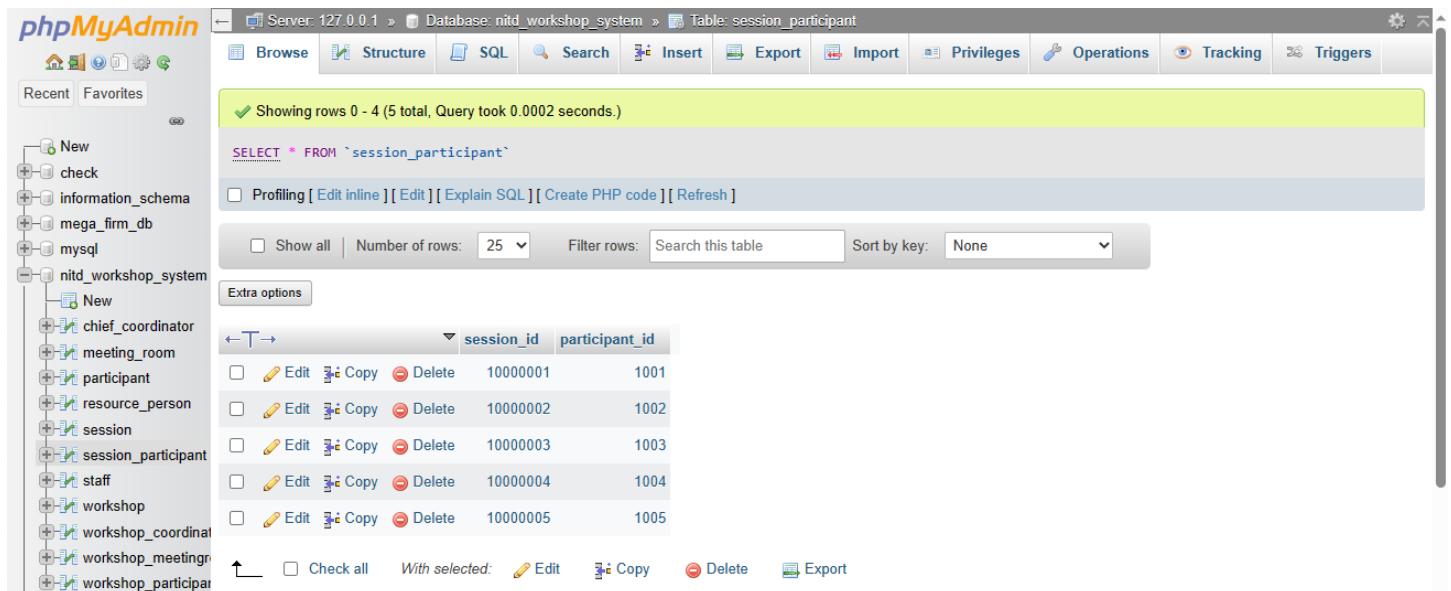
SQL Code:

```
INSERT INTO `session_participant`(`session_id`, `participant_id`)
VALUES
('10000001','1001'),
('10000002','1002'),
('10000003','1003'),
('10000004','1004'),
('10000005','1005');
```

Generated table:



The screenshot shows the phpMyAdmin interface for the 'nltd_workshop_system' database. The 'session_participant' table is selected. A message at the top indicates '5 rows inserted. (Query took 0.0017 seconds.)'. Below it is the SQL query used: `INSERT INTO `session_participant`(`session_id`, `participant_id`) VALUES ('10000001','1001'), ('10000002','1002'), ('10000003','1003'), ('10000004','1004'), ('10000005','1005');`. There are also 'Edit inline', 'Edit', and 'Create PHP code' buttons.



The screenshot shows the phpMyAdmin interface for the 'nltd_workshop_system' database. The 'session_participant' table is selected. A message at the top indicates 'Showing rows 0 - 4 (total, Query took 0.0002 seconds.)'. Below it is the SQL query: `SELECT * FROM `session_participant``. The results table displays the following data:

	session_id	participant_id
<input type="checkbox"/> Edit <input type="button" value="Copy"/> Delete	10000001	1001
<input type="checkbox"/> Edit <input type="button" value="Copy"/> Delete	10000002	1002
<input type="checkbox"/> Edit <input type="button" value="Copy"/> Delete	10000003	1003
<input type="checkbox"/> Edit <input type="button" value="Copy"/> Delete	10000004	1004
<input type="checkbox"/> Edit <input type="button" value="Copy"/> Delete	10000005	1005

At the bottom, there are buttons for 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'.

Figure 54

Figure 55

Workshop_participant Table

SQL Code:

```
INSERT INTO `workshop_participant`(`workshop_id`, `participant_id`)
VALUES
('0010101','1001'),
('0010102','1002'),
('0010103','1003'),
('0010104','1004'),
('0010105','1005');
```

Generated table:

The screenshot shows the phpMyAdmin interface for the 'niti_workshop_system' database. The 'workshop_participant' table is selected. The table structure has two columns: 'workshop_id' and 'participant_id'. The data grid displays five rows of data inserted via the SQL query above. Each row contains a workshop_id and a participant_id. The bottom of the screen shows standard MySQL navigation buttons like 'Check all', 'Edit', 'Copy', 'Delete', and 'Export'.

	workshop_id	participant_id
<input type="checkbox"/>	10101	1001
<input type="checkbox"/>	10102	1002
<input type="checkbox"/>	10103	1003
<input type="checkbox"/>	10104	1004
<input type="checkbox"/>	10105	1005

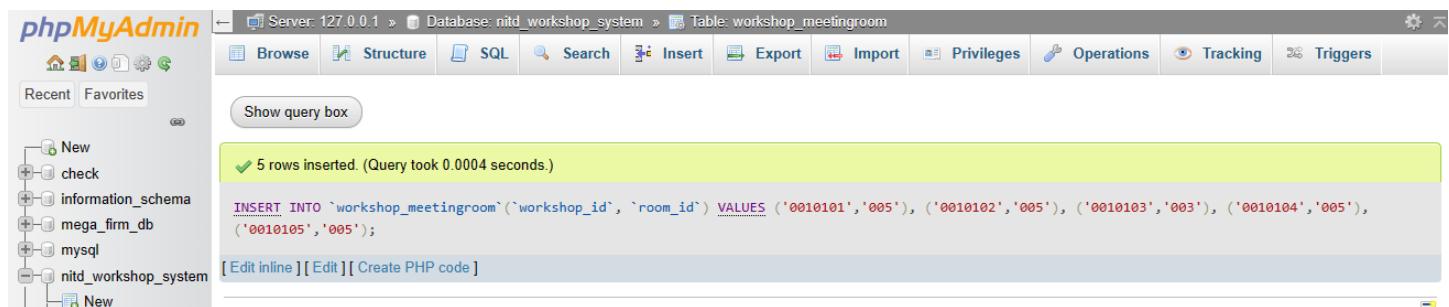
Figure 56

Workshop_meeting Table

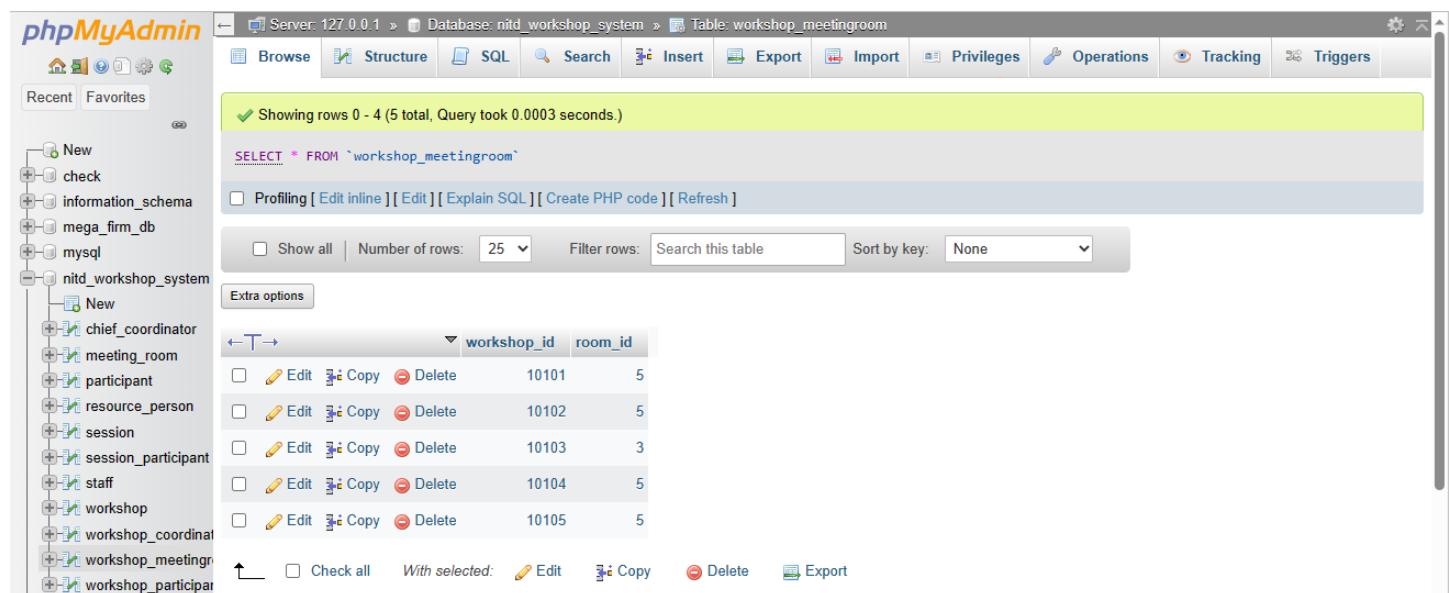
SQL Code:

```
INSERT INTO `workshop_meetingroom`(`workshop_id`, `room_id`)
VALUES
('0010101','005'),
('0010102','005'),
('0010103','003'),
('0010104','005'),
('0010105','005');
```

Generated table:



The screenshot shows the phpMyAdmin interface for the 'nltd_workshop_system' database. The 'workshop_meetingroom' table is selected. A message at the top indicates '5 rows inserted. (Query took 0.0004 seconds.)'. Below it, the SQL query is displayed: `INSERT INTO `workshop_meetingroom`(`workshop_id`, `room_id`) VALUES ('0010101','005'), ('0010102','005'), ('0010103','003'), ('0010104','005'), ('0010105','005');`. The table structure is shown with columns 'workshop_id' and 'room_id'.



The screenshot shows the phpMyAdmin interface for the 'nltd_workshop_system' database. The 'workshop_meetingroom' table is selected. A message at the top indicates 'Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)'. Below it, the SQL query is displayed: `SELECT * FROM `workshop_meetingroom``. The table data is listed as follows:

	workshop_id	room_id
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10101	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10102	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10103	3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10104	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10105	5

Figure 57

Database Diagram

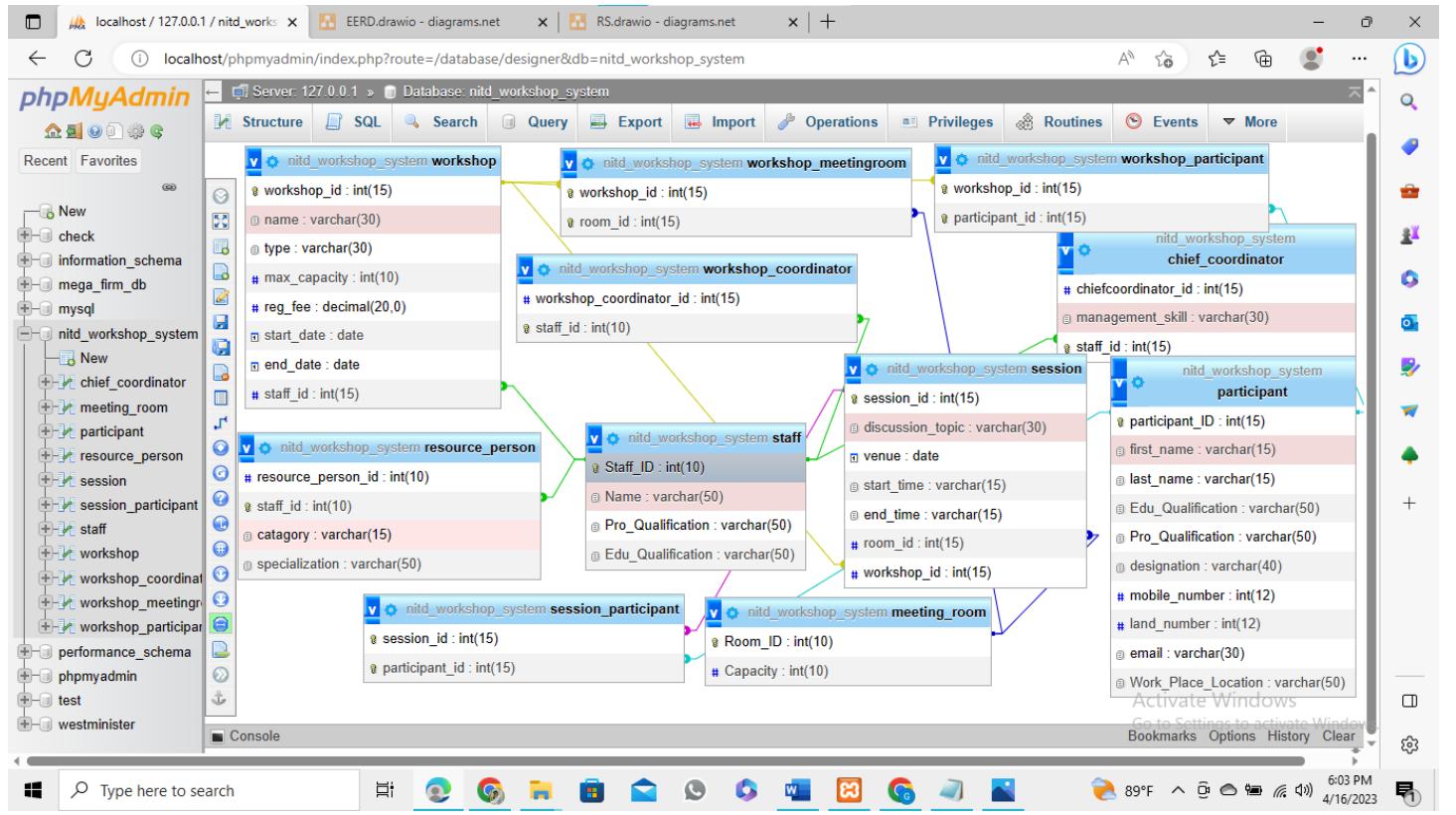


Figure 59 Database Diagram

Question 4

a)

List down the name and the hourly rate of each resource person who is specialised in leadership training or categorized as an entrepreneur. Assume that multiple resource persons can get the same hourly rate. The result set should be displayed from the highest to lowest hourly rate and the alphabetical order of the surname

SQL Code:

```
SELECT resource_person_id,Hourly_rate  
FROM resource_person  
WHERE Specialization = 'Leadership' OR  
Catagory = 'entrepreneur'  
ORDER BY Hourly_rate DESC,`resource_person_id`;
```

Result:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntid_workshop_system
- Table:** resource_person
- Query Result:**

```
Showing rows 0 - 1 (2 total, Query took 0.0003 seconds) [Hourly_rate: 12000... - 10000...] [resource_person_id: 100004... - 100001...]  
SELECT resource_person_id,Hourly_rate FROM resource_person WHERE Specialization = 'Leadership' OR Catagory = 'entrepreneur' ORDER BY Hourly_rate DESC,`resource_person_id`;
```
- Table Data:**

resource_person_id	Hourly_rate
100004	12000
100001	10000
- Operations:** Print, Copy to clipboard, Export, Display chart, Create view.

Figure 60

b)

Display the name (should appear in a single field), designation, and the workplace of the participants who work in organizations situated in cities Colombo, Kandy, Kurunegala and Galle and involved in management related jobs (eg: Project manager, management executive, managing director, etc.)

SQL Code:

```
SELECT CONCAT(`first_name`,' ', `last_name`) AS  
'Name', `Designation`, `work_place_location` FROM participant  
WHERE Work_place_Location IN ('Colombo', 'Kandy', 'Kurunegala', 'Galle')  
AND Designation LIKE ('%manag%');
```

Result:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntid_workshop_system
- Table:** participant
- Query Result:** Rows 0 - 2 (3 total, Query took 0.0003 seconds.)
- SQL Query:**

```
SELECT CONCAT(`first_name`,' ', `last_name`) AS 'Name', `Designation`, `work_place_location` FROM participant WHERE Work_place_Location IN ('Colombo', 'Kandy', 'Kurunegala', 'Galle') AND Designation LIKE ('%manag%');
```
- Table Data:** Shows three rows of data from the participant table.

	Name	Designation	work_place_location
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	dewmi silva	sales manager	kandy
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	vihind perera	HR manager	colombo
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	vinuka silva	Production manager	galle

Figure 61

c)

Display the name and the email address of all the coordinators along with the name and the category of the workshops they handled within last 6 months.

SQL Code:

```
SELECT DISTINCT WC.`name` AS Name, CC.`email`, W.Name, W.type  
FROM chief_coordinator AS CC INNER JOIN workshop AS W INNER JOIN workshop_coordinator AS WC  
ON CC.staff_id = W.staff_id  
WHERE W.start_date  
BETWEEN '2022-11-15' AND CURRENT_DATE;
```

Result:

The screenshot shows the phpMyAdmin interface with the database 'niti_workshop_system' selected. The left sidebar shows the database structure with tables like mysql, niti_workshop_system, and workshop. The main area displays the 'workshop' table data.

Name	email	Name	type
Ayesh kumara	nuwan2@gmail.com	Introduction to Data Science	Educational Workshops
ayush tishan	nuwan2@gmail.com	Introduction to Data Science	Educational Workshops
Dinithi sewmini	nuwan2@gmail.com	Introduction to Data Science	Educational Workshops
hivin perera	nuwan2@gmail.com	Introduction to Data Science	Educational Workshops
Ayesh kumara	ashen5@gmail.com	Digital Marketing	Entrepreneurship Workshops
ayush tishan	ashen5@gmail.com	Digital Marketing	Entrepreneurship Workshops
Dinithi sewmini	ashen5@gmail.com	Digital Marketing	Entrepreneurship Workshops
hivin perera	ashen5@gmail.com	Digital Marketing	Entrepreneurship Workshops
Ayesh kumara	pasindu2021@gmail.com	Strategic Planning and Executi	Educational Workshops
ayush tishan	pasindu2021@gmail.com	Strategic Planning and Executi	Educational Workshops
Dinithi sewmini	pasindu2021@gmail.com	Strategic Planning and Executi	Educational Workshops
hivin perera	pasindu2021@gmail.com	Strategic Planning and Executi	Educational Workshops
Ayesh kumara	avisha23@gmail.com	Sales Techniques for Success	Business Workshops
ayush tishan	avisha23@gmail.com	Sales Techniques for Success	Business Workshops
Dinithi sewmini	avisha23@gmail.com	Sales Techniques for Success	Business Workshops
hivin perera	avisha23@gmail.com	Sales Techniques for Success	Business Workshops

Figure 62

d)

Display the details of all the meeting rooms which can accommodate the maximum number of participants in each floor, if it was not allocated to any workshop within the month of February 2023.

SQL Code:

```

SELECT * FROM meeting_room AS MR
WHERE NOT EXISTS (SELECT 1 FROM workshop AS w
WHERE w.workshop_id = MR.Room_ID
AND (w.start_date) = 2
AND YEAR(w.start_date) = 2023)
AND MR.Capacity = ( SELECT MAX(Capacity)
FROM meeting_room
WHERE Floor_number = MR.floor_number);

```

Result:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntid_workshop_system
- Table:** meeting_room
- Query Result:** Rows 0 - 4 (5 total, Query took 0.0041 seconds.)
- SQL Query:**

```

SELECT * FROM meeting_room AS MR WHERE NOT EXISTS (SELECT 1 FROM workshop AS w WHERE w.workshop_id = MR.Room_ID AND (w.start_date) = 2 AND YEAR(w.start_date) = 2023) AND MR.Capacity = ( SELECT MAX(Capacity) FROM meeting_room WHERE Floor_number = MR.floor_number);

```
- Table Data:**

	Room_ID	Capacity	floor_number
<input type="checkbox"/>	1	40	F1
<input type="checkbox"/>	2	30	F2
<input type="checkbox"/>	3	60	F3
<input type="checkbox"/>	4	80	F4
<input type="checkbox"/>	5	150	F5

Figure 63

e)

Display the workshop details such as name, number of sessions held, number of registered participants, and the total revenue generated from each workshop.

SQL Code:

```
SELECT workshop.name AS Workshop_Name,
```

```

COUNT(DISTINCT session.session_id) AS Number_of_sessions,
COUNT(DISTINCT workshop_participant.participant_id) AS Total_Participants,
SUM(workshop.reg_fee) AS Total_Revenue
FROM workshop
LEFT OUTER JOIN session ON workshop.workshop_id = session.workshop_id
LEFT OUTER JOIN workshop_participant ON workshop_participant.workshop_id = workshop.workshop_id
GROUP BY workshop.workshop_id;

```

Result:

The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1
- Database:** ntd_workshop_system
- Table:** workshop
- Query Result:**
 - Showing rows 0 - 4 (5 total, Query took 0.0029 seconds.)
 - SQL Query:

```

SELECT workshop.name AS Workshop_Name, COUNT(DISTINCT session.session_id) AS Number_of_sessions, COUNT(DISTINCT workshop_participant.participant_id) AS Total_Participants, SUM(workshop.reg_fee) AS Total_Revenue FROM workshop LEFT OUTER JOIN session ON workshop.workshop_id = session.workshop_id LEFT OUTER JOIN workshop_participant ON workshop_participant.workshop_id = workshop.workshop_id GROUP BY workshop.workshop_id;

```
 - Buttons: Profiling, Edit inline, Edit, Explain SQL, Create PHP code, Refresh.
 - Filter: Show all, Number of rows: 25, Filter rows: Search this table.
- Table Data:**

Workshop_Name	Number_of_sessions	Total_Participants	Total_Revenue
Introduction to Data Science	1	1	2000
Digital Marketing	1	1	3500
Strategic Planning and Executi	1	1	1000
Sales Techniques for Success	1	1	4000
Human Resources Fundamentals	1	1	1000

Figure 64

